			<u>(VV)</u>
·	Application No.	Applicant(s)	1
Notice of Allowability	10/602,958	YAO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Christine M. Behncke	3661	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due of	d course. THIS
 This communication is responsive to <u>the Amendment filed</u>. 	<u>9/20/2004</u> .		
2. X The allowed claim(s) is/are <u>1-21</u> .			
3. $igotimes$ The drawings filed on <u>6/24/2003</u> are accepted by the Exam	iner.		
4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on oted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date ldentifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT In DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT In DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT In DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT In DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT In DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT In DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT In DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT In Deposit Amanuscular attached Examiner's comment regarding REQUIREMENT In Deposit Amanuscular attached Examiner's comment regarding Required E	been received. been received in Application No cuments have been received in this in of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER' as reason(s) why the oath or declarate to be submitted. on's Patent Drawing Review (PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in eiter of BIOLOGICAL MATERIAL in	complying with the required complete. Some complete c	uirements OTICE OF back) of
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. ☐ Other	(PTO-413), ie nent/Comment	warce Liv

DETAILED ACTION

This office action is in response to the amendment filed on 9/20/2004 in which claims 1-21 are presented for examination.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jon Beaupre, Reg. No. 54,729, on December 7, 2004. It should be noted that the changes made below are in reference to the Claims of Record filed 9/20/2004.

Claim 1, line 16 "signals form a" remove "form" and insert -- from -- between "signals" and "a".

Claim 18, line 1 insert --of-- between "series" and "residuals".

Claim 18, line 2 "generated which each" remove "which" and insert -- where -- between "generated" and "each".

Claim 18 (of Record), line 2 "fault solation." remove "solation" and insert --isolation.-- after "fault".

Claim 19 (of Record), line 7 "communication w th the" remove "w th" and insert --with--between "communication" and "the".

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Claim 19 (of Record), line 9 "to rece ve input" remove "rece ve" and insert --receive-between "to " and " input".

Claim 21, line 2 remove the first occurrence of "the". The first part should read: -generates fault decision signals--.

Allowable Subject Matter

Claims 1-21 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-21 are allowable because the prior art of record does not include: a method of model-based fault detection for a vehicle Steer-By-Wire system that includes: a steerby-wire controlled plant, a steer-by-wire controller, a steer-by-wire fault detection unit, a residual generator based on the model of the steer-by-wire control plant, a decisionmaking unit included in the steer-by-wire fault detection unit, and the generation of fault decision signals to determine the fault occurrence in the sensors, actuators and controlled plant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine M. Behncke whose telephone number is (703) 305-0589. The examiner can normally be reached on Monday - Friday 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on (703) 305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

12/07/2004